DDR2 Unbuffered Memory Module

AETx60UD00-[25D/30D/370]

4GB, 2GB, 1GB, 512MB

This Data Sheet describes features and specification of AENEON™ DDR2 UDIMM family of product.

Features

- Memory modules available in densities of 4GB, 2GB, 1GB and 512MB
- Memory modules available in speeds of 533MHz, 667MHz and 800MHz
- 100% tested component and module levels at rated speed and voltage.
- 240-Pin Dual Inline Memory Module (DIMM) with gold contacts.
- Electrical characteristics and timing specifications are conforming to Industry standards.
- Industry standard PCB form-factor.

Description

AENEON™ DDR2 UDIMM are assembled with 100% tested DDR2 components. The modules are then again 100% tested at the rated speed and voltage ensuring compatibility on various platforms. Designed to run at standard 1.8V, AENEON™ DDR2 modules have excellent reliability.

TABLE 1
Ordering Information

Product Type	Module Density	Speed Grade	CAS-RCD-RP-RAS	Compliance Code
DDR2-800D 5-5-5-15				
AET960UD00-25D	4GB	DDR2-800D	5-5-5-15	PC2-6400U-555
AET860UD00-25D	2GB			
AET760UD00-25D	1GB			
AET660UD00-25D	512MB			
DDR2-667D 5-5-5-15				
AET960UD00-30D	4GB	DDR2-667D	5-5-5-15	PC2-5300U-555
AET860UD00-30D	2GB			
AET760UD00-30D	1GB			
AET660UD00-30D	512MB			
DDR2-533C 4-4-4-12				
AET860UD00-370	2GB	DDR2-533C	4-4-4-12	PC2-4200U-444
AET760UD00-370	1GB			
AET660UD00-370	512MB			

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TABLE 2
Specification

Speed Grade	DDR2-800D	DDR2-667D	DDR2-533C
CAS-RCD-RP latencies	**5-5-5**	**5-5-5**	**4-4-4**
Clock cycle time $t_{CK.MIN}$	2.5 ns	3 ns	3.75 ns
Activate to read/write delay $t_{RCD.MIN}$	12.5 ns	15 ns	15 ns
Row cycle time $t_{RC.MIN}$	57.5 ns	60 ns	60 ns
Row active time $t_{RAS.MIN}$	45 ns	45 ns	45 ns
Refresh row cycle time $t_{RFC.MIN}$	90 ns		
Single power supply $V_{DD} = V_{DDQ}$	1.8 V ± 0.1 V		
Module dimensions L x W x H (max)	133.35 mm x 31.0 mm x 4.0 mm		
	5.25″ x 1.22″ x 0.16″		

Please Note
The information herein is given to describe certain components and shall not be considered as a guarantee of characteristics. Terms of delivery and rights to technical change reserved. We hereby disclaim any and all warranties, including but not limited to warranties of non-infringement, regarding circuits, descriptions, and charts stated herein.

Warnings
Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest distribution partner.
Components may only be used in life support devices or systems with the express written approval of Qimonda AG, if a failure of such components can reasonably be expected to cause the failure of that life support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.